



PATENT CASE IN0291K2GQ1B1C

#5 1624 10/13/02

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

BISHOP ET AL.

For Patent For: TRICYCLIC AMIDE AND  
UREA COMPOUNDS USEFUL FOR  
INHIBITION OF G-PROTEIN FUNCTION  
AND FOR TREATMENT OF  
PROLIFERATIVE DISEASES

Serial No.: 10/026,751

Filed: December 20, 2001

Examiner: To be assigned

Group: 1624

Date: October 4, 2002

TECH CENTER 1600/2900

OCT 11 2002

RECEIVED

Schering-Plough Corporation  
Kenilworth, New Jersey 07033-0530

Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Submitted herewith is Applicants' PTO Form 1449. Applicants request that the cited references be made of record in the above-identified Application.

Since no action on the merits has been received as of this mailing, no fee is deemed due for this submission. However, if it is determined that a fee is due, then authorization to change such fee to our Deposit Account No. 19-0365 is hereby given.

Copies of references AK, AL, AO, AP, AQ, BL, BM, BN, BO, BP, BQ, BR, BS, BU, BV are submitted herewith.

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING  
DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST  
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October 4, 2002

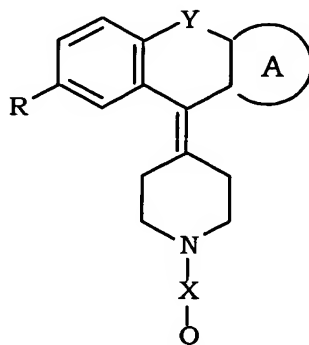
(DATE OF DEPOSIT)

HENRY C. JEANETTE REG. NO. 30,856  
(REGISTERED REPRESENTATIVE)

Henry C. Jeanette October 4, 2002  
(SIGNATURE AND DATE)

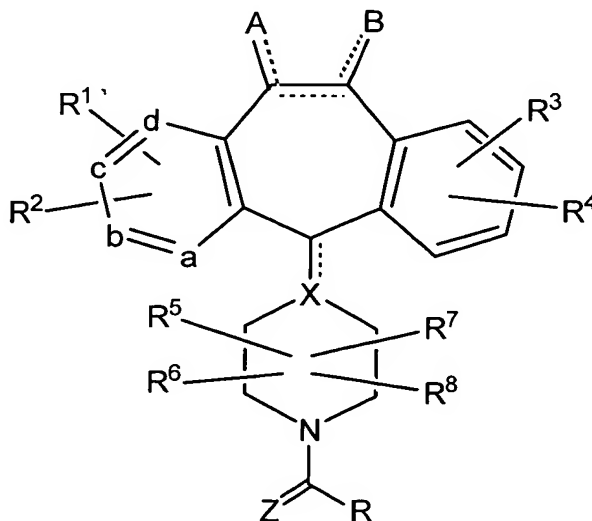
Copies of the remaining references are not submitted herewith in view of Applicants' submission in parent Application Serial No. 9,350,870. The Examiner is requested to notify the undersigned if another copy of these references is desired.

U.S. 5,393,890, cited on the 1449 form, is directed to compounds of the formula:

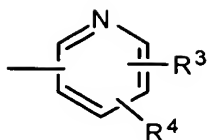


wherein R can be H, chloro or methoxy; Y can be, amongst others,  $-\text{CH}=\text{CH}-$ ,  $-\text{CH}_2\text{CH}_2-$ ,  $-\text{OCH}_2$ , and  $-\text{SCH}_2-$ ; A can be, amongst others, pyridine (see column 2 at about line 27); X can be, amongst others,  $-\text{CO}-$  or  $-\text{SO}_2-$ ; and Q can be, amongst others, phenyl, piperidinyl or thienyl.

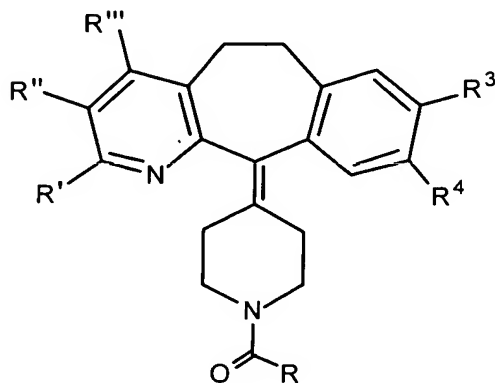
WO88/03138, cited on the 1449 form, discloses compounds of the formula:



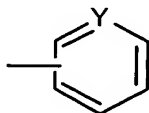
wherein: one of a, b, c, and d can be N; X can be C or N; Z can be O or S; and R can be, amongst others, an alkyl group which alkyl group can be substituted with, amongst others, aryl,  $-\text{N}(\text{R}^{10})_2$  (wherein  $\text{R}^{10}$  can be H),  $-\text{OR}^{12}$  (wherein  $\text{R}^{12}$  can be H), or a group D which D group can be, amongst others, the substituent



U.S. 5,089,496, cited on the 1449 form, discloses compounds of the formula:

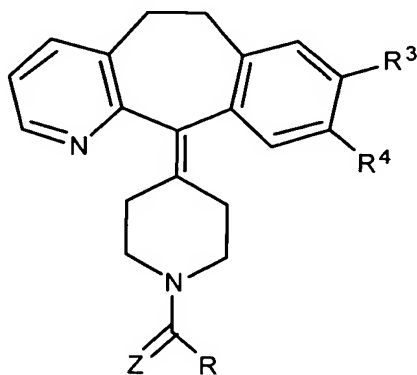


wherein R can be alkyl substituted with with a heterocyclic N-oxide group of the formula



wherein Y represents N<sup>+</sup>-O<sup>-</sup>. R can also be alkyl substituted with -OR<sup>12</sup> or -N(R<sup>10</sup>)<sub>2</sub> wherein R<sup>12</sup> and R<sup>10</sup> can be H. (See Column 3 at about lines 37 to about 43).

U.S. 5,089,496, in Column 74, discloses the compounds:

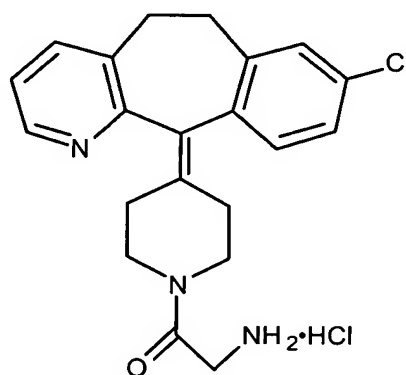
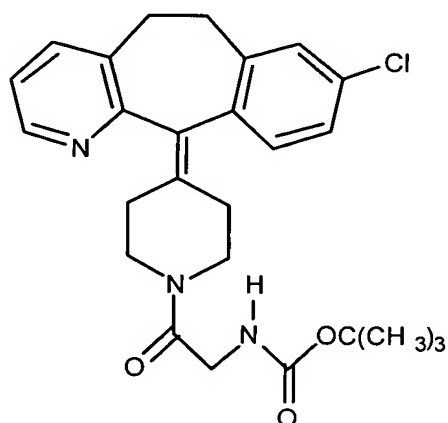


wherein the substituents can be, for example:

R <sup>3</sup>	R <sup>4</sup>	R	Z
-Cl	-H	-CH <sub>2</sub> OC <sub>2</sub> H <sub>5</sub>	O
-Cl	-H	-CH(CH <sub>3</sub> ))CH <sub>3</sub>	O
-Cl	-H	-C(O)CH <sub>3</sub>	O
-H	-Cl	-CH <sub>2</sub> OCH <sub>3</sub>	O
-CH <sub>3</sub>	-H	-CH <sub>2</sub> OCH <sub>3</sub>	O
-H	-H	-CH <sub>2</sub> OCH <sub>3</sub>	O
-F	-H	-CH <sub>2</sub> OCH <sub>3</sub>	O
-Cl	-H	-CH(OH)CH <sub>3</sub>	O

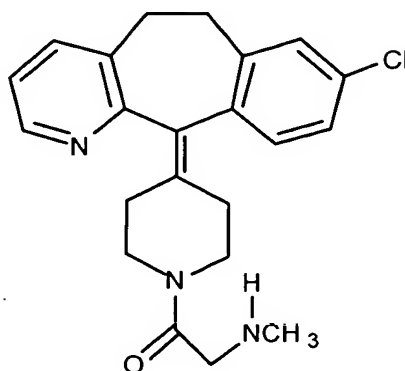
(see also Column 76 wherein, for example, R<sup>3</sup> is -Cl, R<sup>4</sup> is -H, Z is O and R is -CH<sub>2</sub>CH=CH<sub>2</sub> or C(CH<sub>3</sub>)<sub>2</sub>OCH<sub>3</sub>).

U.S. 5,089,496 also discloses the compounds:



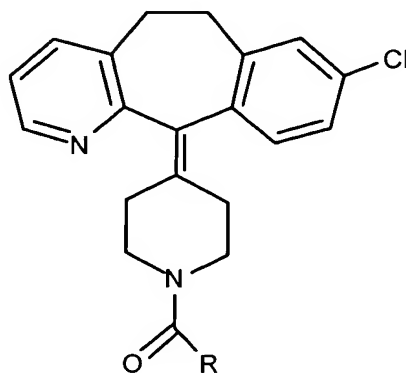
in Example 9 in Column 84.

U.S. 5,089,496 also discloses the compound:

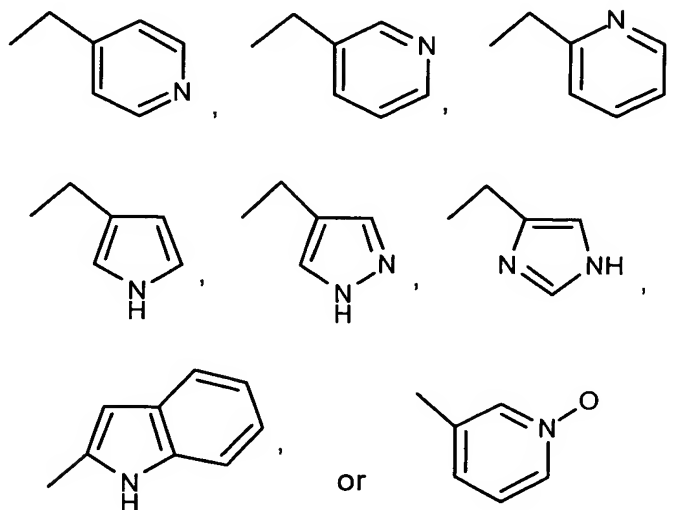


at the top of Column 86.

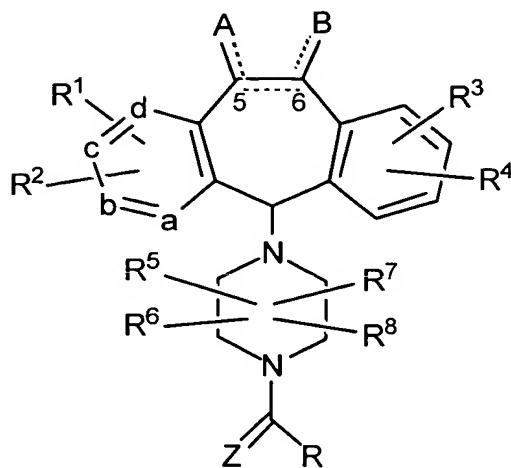
In Column 93 (the 2nd, 3rd and 4th values for R), U.S. 5,089,496 further discloses the compounds:



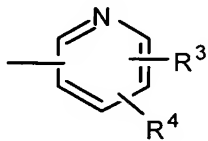
wherein R can be:



In addition, Claim 1 of U.S. 5,089,496 is directed to compounds of the formula:

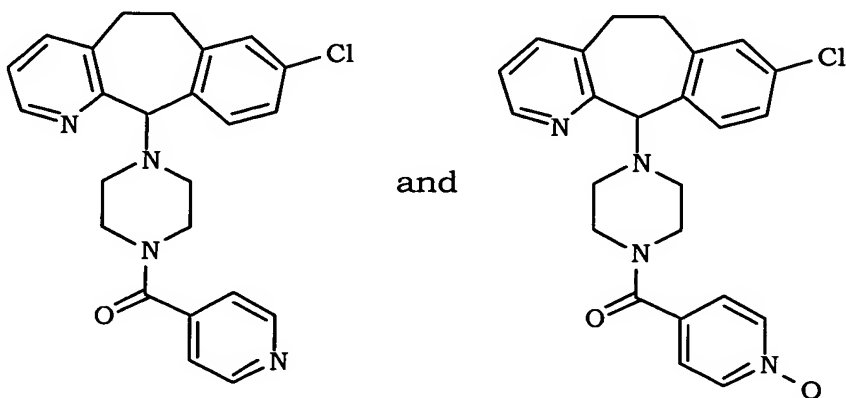


wherein: one of a, b, c, and d can be N; Z can be O or S; and R can be, amongst others, an alkyl group which alkyl group can be substituted with, amongst others, aryl,  $-N(R^{10})_2$  (wherein  $R^{10}$  can be H),  $-OR^{12}$  (wherein  $R^{12}$  can be H), or a group D which D group can be, amongst others, the substituent



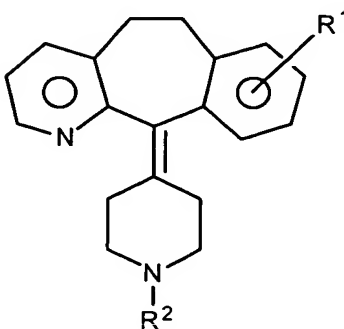
2-, 3- or 4-piperidinyl, or 2- or 3-piperazinyl.

It is believed that Example 20 (column 95) of U.S. 5,089,496 discloses the compounds:

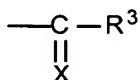


Claim 3 (Column 100) of U.S. 5,089,496, is directed to compounds of Claim 1 wherein R can be, amongst others, alkyl substituted with  $OR^{12}$  or  $-N(R^{10})_2$ .

EP 0 495 484, cited on the 1449 form discloses compounds of the formula:

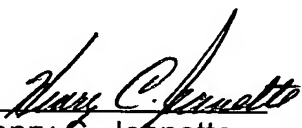


wherein R<sup>1</sup> represents a cyano, carbamoyl, alkylsulfoxy, alkylsulfonyl, tetrazolyl or sulfonic acid group; and R<sup>2</sup> represents a hydrogen atom, a cyano, phenyl, aralkyl, alkoxycarbonylalkyl, aminoalkylcarbamoylalkyl or lower alkyl group or a group

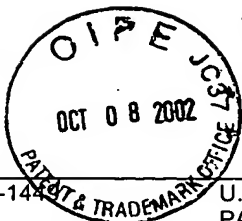


or X-R<sup>4</sup>, X being an oxygen or sulfur atom, R<sup>3</sup> standing for a hydrogen atom or a substituted or unsubstituted lower alkyl, phenyl or aralkyl group, and R<sup>4</sup> being a substituted or unsubstituted lower alkyl, phenyl or aralkyl group or an aminoalkyl group.

Respectfully submitted,

  
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Reg. No. 30,856  
Attorney for Applicants  
(908) 298-5041

HCJ: ama  
Enclosures



#5

Sheet 1 of 2

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: IN0291K2GQ1B1C		SERIAL NO.: 10/026,751	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICANT: BISHOP et al.		FILING DATE: December 20, 2001	
(Use several sheets if necessary)				GROUP: 1624			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT - NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA	4,282,233	8/81	Villani			
	AB	4,826,853	5/89	Piwiniski et al.			
	AC	4,831,042	5/89	Villani			
✓	AD	4,863,931	9/89	Schumacher et al.	514	290	
	AE	5,089,496	2/92	Piwiniski et al.			
	AF	5,104,876	4/92	Piwiniski et al.			
	AG	5,141,851	8/92	Brown et al.			
	AH	5,151,423	9/92	Piwiniski et al.			
	AI	5,393,890	2/28	Masataka Syoji et al.			
	AJ	5,665,726	9/97	Piwiniski et al.			
✓	AK	5,672,611	9/97	Doll et al.	514	325	
✓	AL	5,684,013	11/97	Afonso et al.	514	290	
	AM	5,696,121	12/97	Bishop et al.			
	AN	5,700,806	12/97	Doll et al.			
✓	AO	5,703,090	12/97	Afonso et al.	514	290	
✓	AP	5,712,280	1/98	Doll et al.	514	253	
✓	AQ	5,714,609	2/98	Doll et al.	546	93	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
✓	AR	EP 0042544	12/81	Europe			
✓	AS	EP 0270818	6/88	Europe			
	AT	EP 0396083	11/90	Europe			
✓	AU	EP 0495484	7/92	Europe			
	AV	EP 0535730	4/93	Europe			
	AW	WO88/03138	5/88	WIPO			
	AX	WO89/10363	11/89	WIPO			
	AY	WO90/13548	11/90	WIPO			
	AZ	WO92/00293	1/92	WIPO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BA	Cell, 65, 1-4 (1991).					
	BB	J. Biol. Chem., 266 (24) 15575-15578 (1991).					
	BC	Proc. Natl. Acad. Sci. USA, 87, 3042-3046 (1990).					
	BD	Proc. Natl. Acad. Sci. USA, 88, 8631-8635 (1991).					
	BE	Nature, 356, 713-715 (1992).					
	BF	Proc. Natl. Acad. Sci. USA, 87, 7541-7545 (1990).					
	BG	J. Biol. Chem., 265, (25) 14701-14704 (1990).					
	BH	Proc. Natl. Acad. Sci. USA, 87, 7926-7929 (1990).					
	BI	Cell, 62, 81-88 (1990).					
	BJ	Biochemistry, 31, 3800-3807.					
EXAMINER				DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



